

# Residential Deck Drawings

## General Notes

- All lumber shall be pressure treated for exterior use. All metal fasteners & hangers shall be G185 galvanized, stainless steel or otherwise compatible with the wood treatment. All bolts shall be 1/2" diameter, minimum.
- All beams, joists, posts and decking shall be No. 2 Southern Pine, or better.
- All beam splices and top rails shall occur at a post or otherwise on adequate bearing.
- All footings shall be cast-in-place concrete with a min. 2500 psi compressive strength.
- Guards are required at all areas where the deck/porch floor is greater than 30" above grade at any point.
- Required guards shall be 36" tall (min.) and be constructed such that a 4" diameter object will not pass through.
- Guard post spacing shall not exceed 6 ft. on center.
- Required guards & handrails at stairs shall range from 34" to 38" vertically above the stair nosings.
- Handrail ends, at the top and bottom, shall terminate into a post or be returned to a wall.
- On stairs with closed risers, treads shall have a projected nosing ranging from 3/4" to 1-1/4". All treads and risers shall be equal.
- The deck/porch floor shall be within 8-1/4" of the top of the door threshold.
- Live Load Deflection: Joists & Beams- L/360  
Guards- L/240
- Design Loads: Floor Live Load - 40 lbs./sf (min.)  
Wind Speed - 90 mph  
Soil Bearing Pressure - 1500 lbs./sf
- Guards shall be designed for a 200 lb. concentrated load placed along the top rail in any direction, at any point.
- This deck/porch is not designed for hot-tub or spa loading.
- All exterior stairs & associated landings shall be illuminated.
- Post size is based on the height of the deck floor above finished grade (at the highest point):  
0' to 8' high: 4x4, 4x6, 6x6  
8' to 10' high: 4x6, 6x6  
10' and up: 6x6 (required for multi-leveled decks too)
- All separated beams shall receive full depth solid blocking at 24" on center, maximum spacing.
- The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.

## Framing/Footing Options

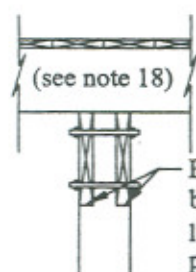
[1] Circle a floor joist lumber size and span, [2] Circle the row of a corresponding floor beam lumber size.

Floor Joists <sup>a</sup>		Floor Beams		Footings				1/2" Ledger Board Bolts
Lumber Size	Max. Span [A]	Lumber Size	Max. Span [B]	Single-Span Floor Joists min. dia. [C]	Single-Span Floor Joists min. thick [D]	Multi-Span Floor Joists min. dia. [C]	Multi-Span Floor Joists min. thick [D]	Spacing
(nominal)	(feet)	(nominal)	(feet)	(inches)	(inches)	(inches)	(inches)	(inches)
2 x 6	8	(2) 2 x 6	5	16	8	22	11	24
		(2) 2 x 8	7	19	10	27	14	24
		(2) 2 x 10	9	22	11	32	16	24
		(2) 2 x 12	11	24	12	34	17	24
2 x 8	10	(2) 2 x 8	7	20	10	28	14	16
		(2) 2 x 10	9	24	12	34	17	16
		(2) 2 x 12	10	25	13	35	18	16
2 x 10	13	(2) 2 x 10	8	24	12	34	17	16
		(2) 2 x 12	9	26	13	37	19	16
2 x 12	16	(2) 2 x 12	8	28	14	40	20	12

a. All joists spaced 16" oc.

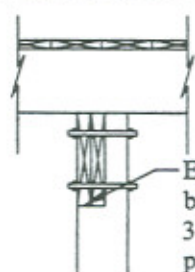
## Beam to Post Connection Options

[3] Circle a beam to post connection option, [4] circle a post size option,



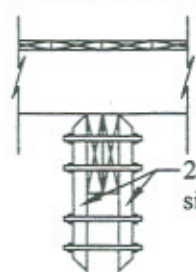
Each beam bears on min. 1-1/2" notch in post.

6x6 posts (only)



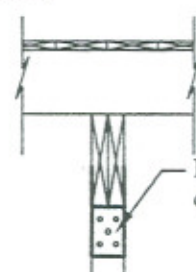
Entire beam bears on min. 3" notch in post.

6x6 posts (only)



2x each side

4x4 posts (up to 8')  
4x6 posts (up to 10')  
6x6 posts req'd over 10')



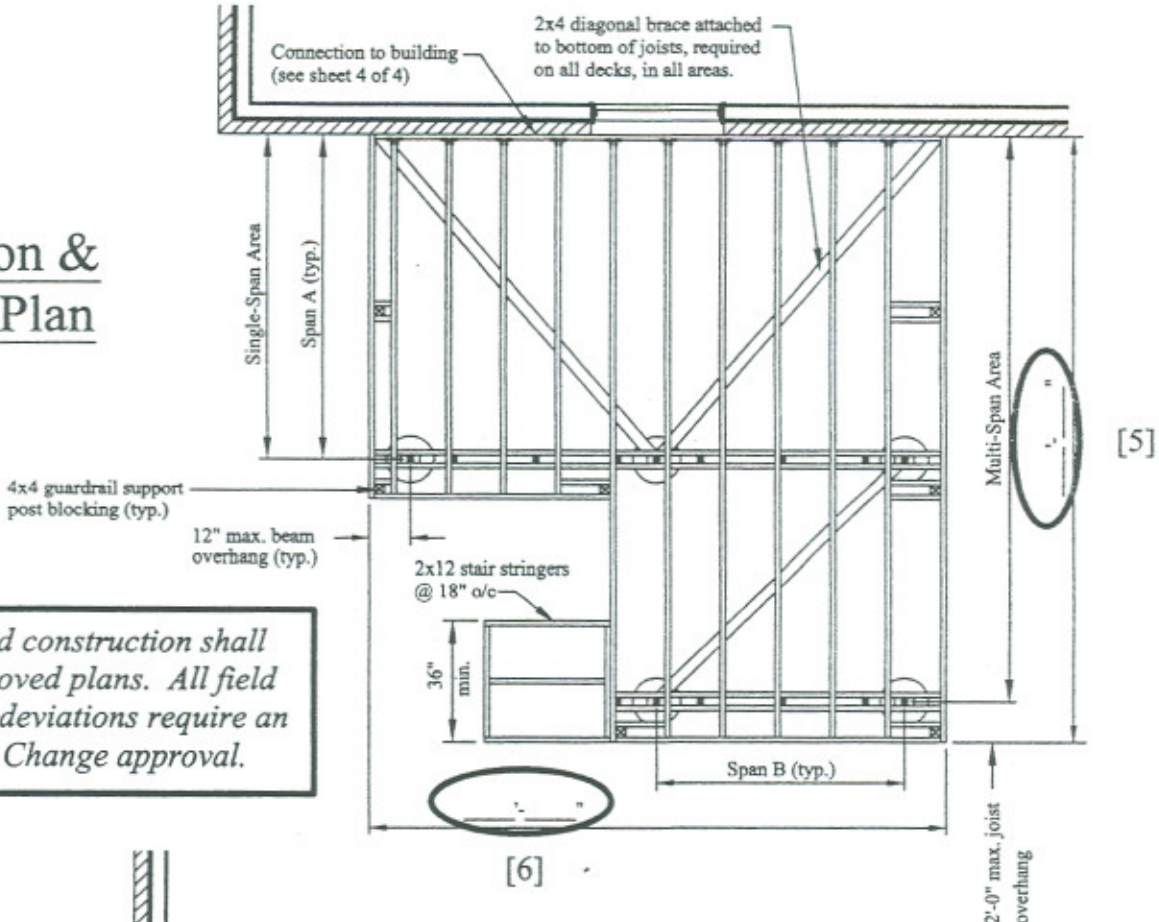
Post cap connector

4x4 posts (up to 8')  
4x6 posts (up to 10')  
6x6 posts req'd over 10')

<b>Property Owner:</b>	<b>Designer:</b>	<b>Contractor:</b>	Application No.
Name: _____	Name: _____	Name: _____	Sheet No.
Address: _____	Address: _____	Address: _____	1 of 4
Phone: _____	Phone: _____	Phone: _____	Residential Deck Drawings

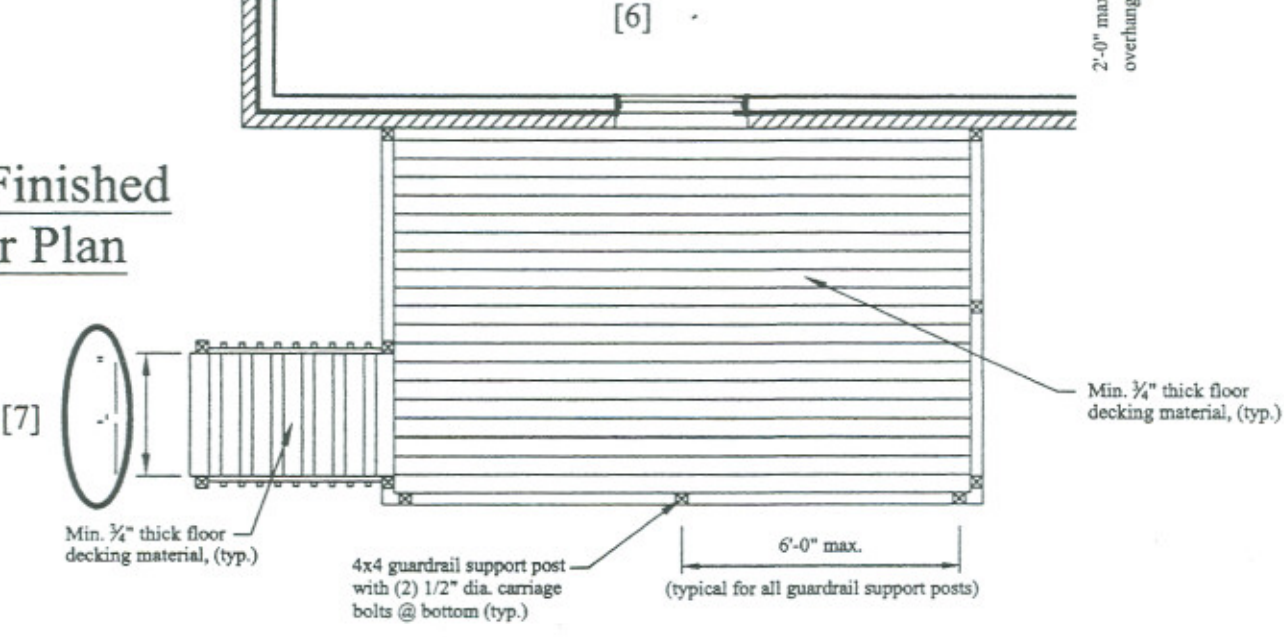


Foundation & Framing Plan

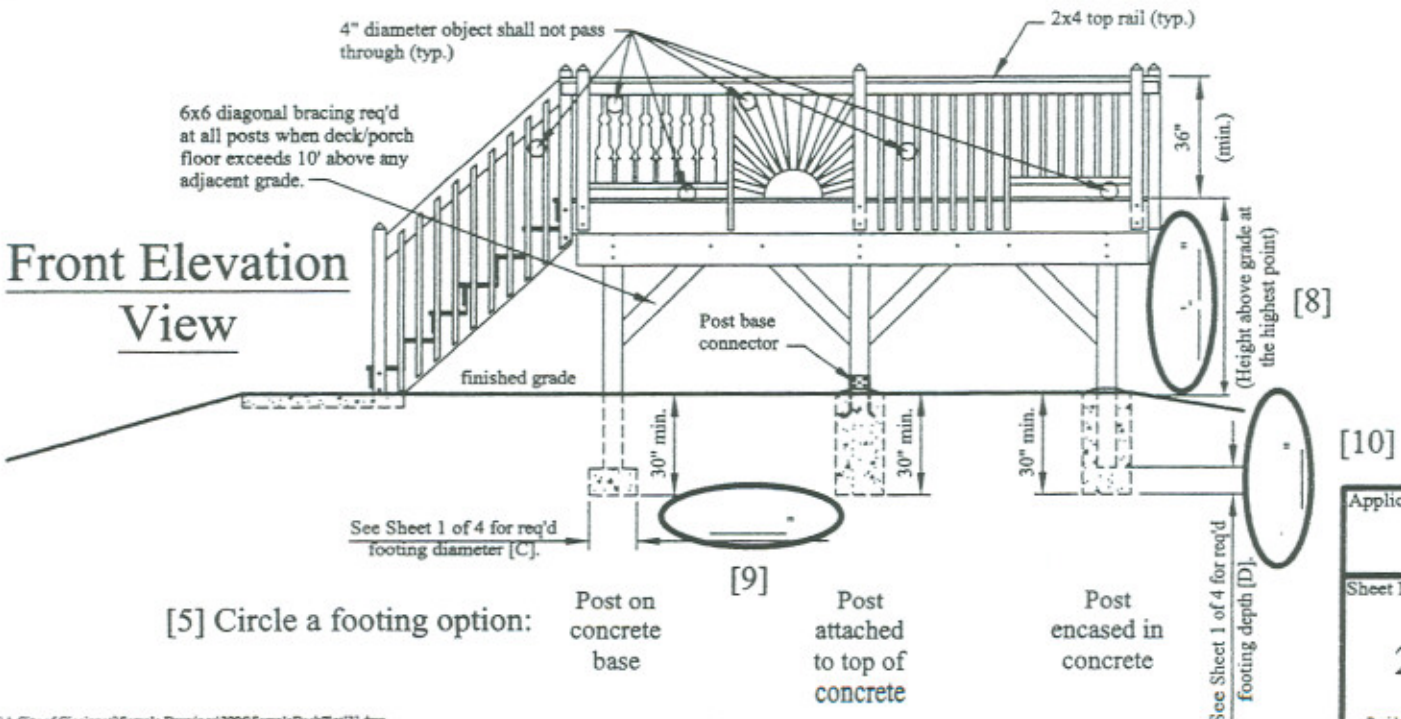


The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.

Deck Finished Floor Plan



Front Elevation View

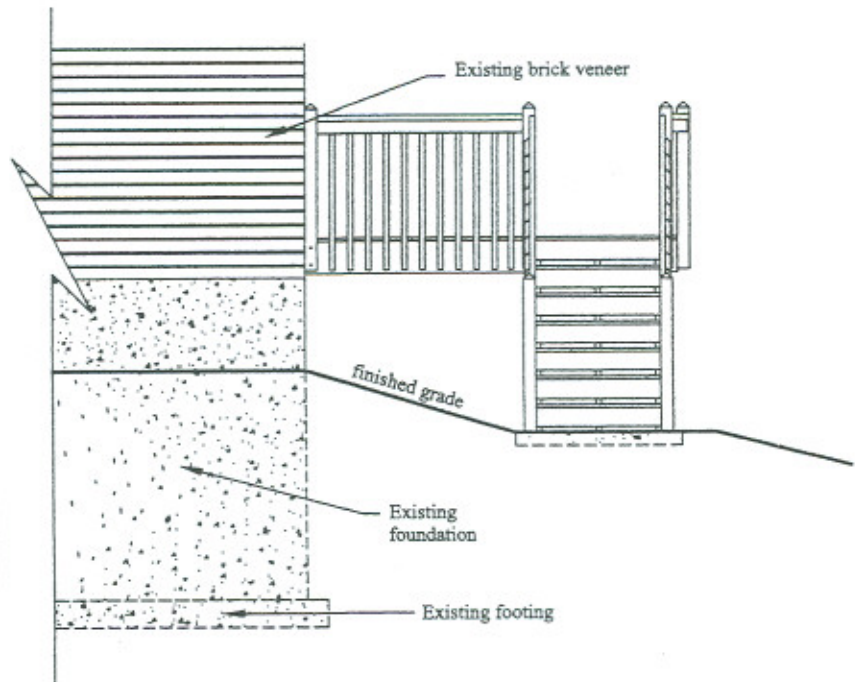


[5] Circle a footing option:

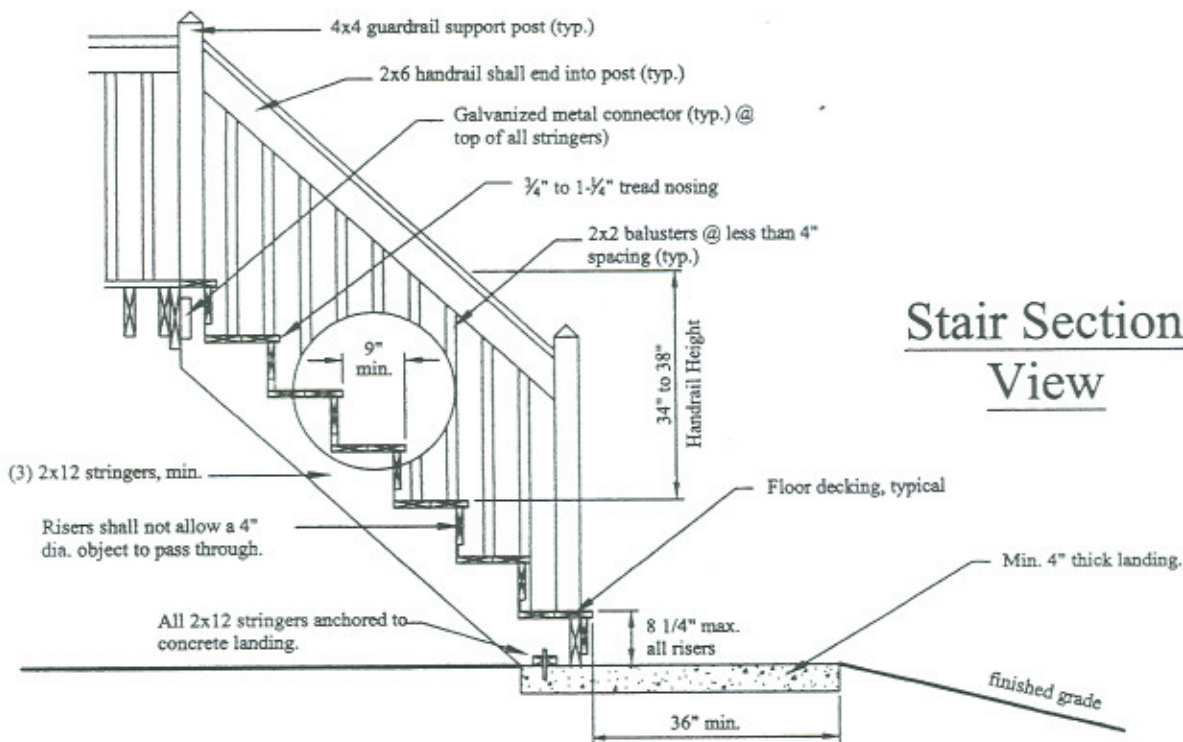
Application No.
Sheet No.
2 of 4
Residential Deck Drawings

## Left Side Elevation View

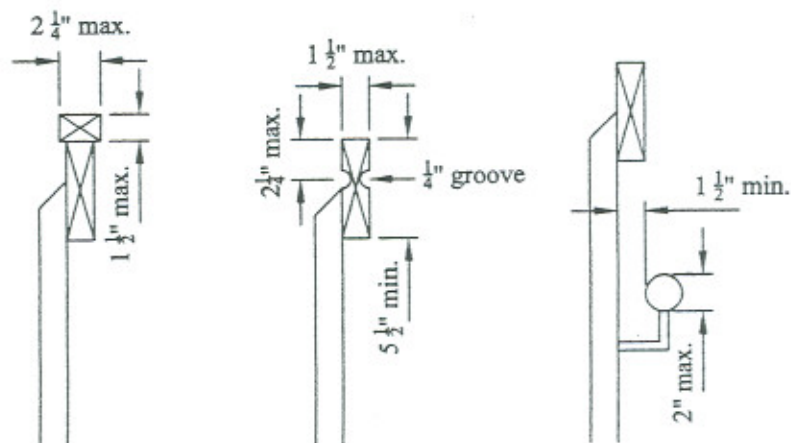
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## Stair Section View



## Handrail Sections



Application No.

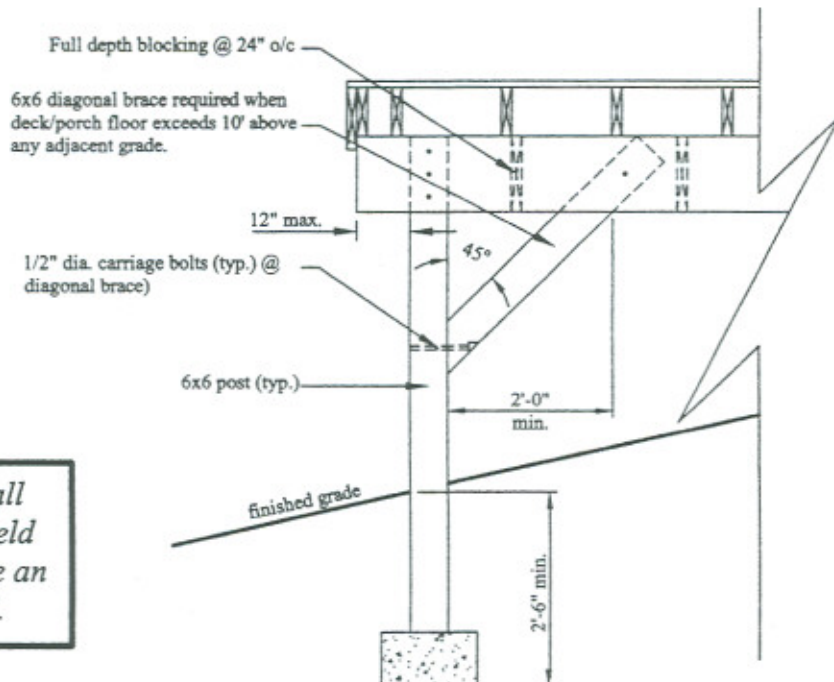
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3 of 4



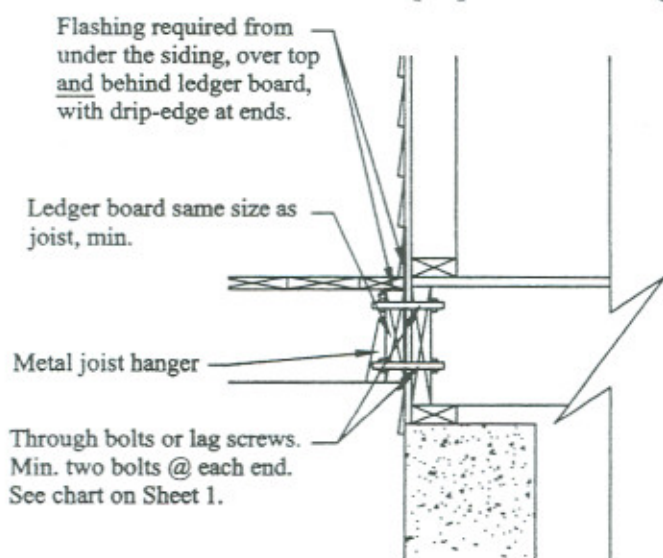
## Post & Beam Detail

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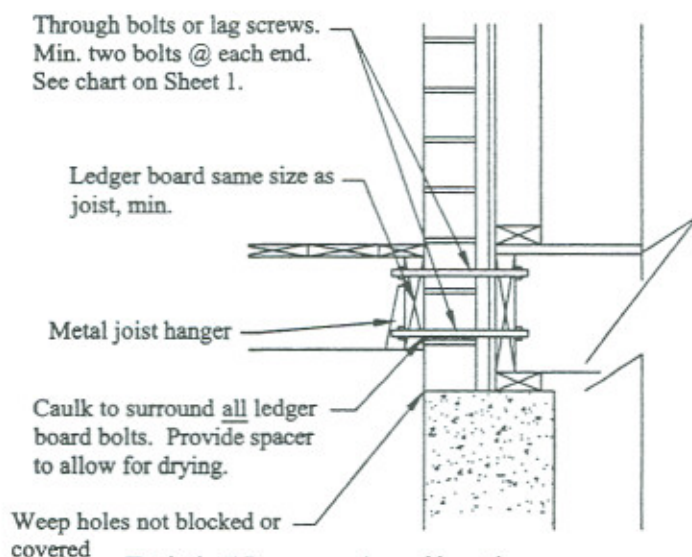


## Ledger Board Details

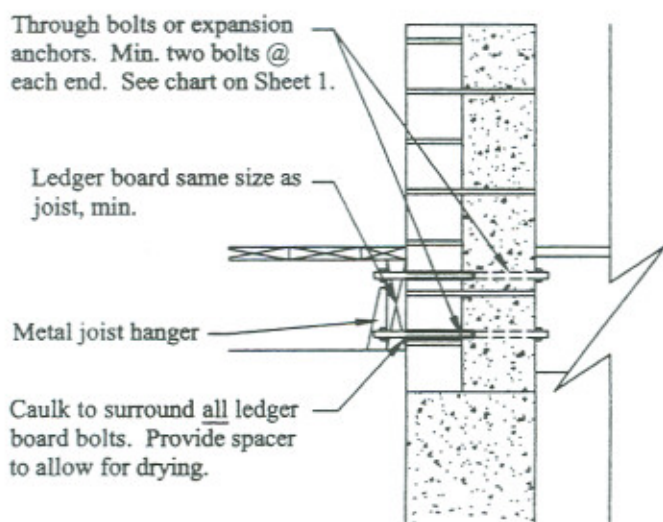
[11] Circle the ledger board detail that applies.



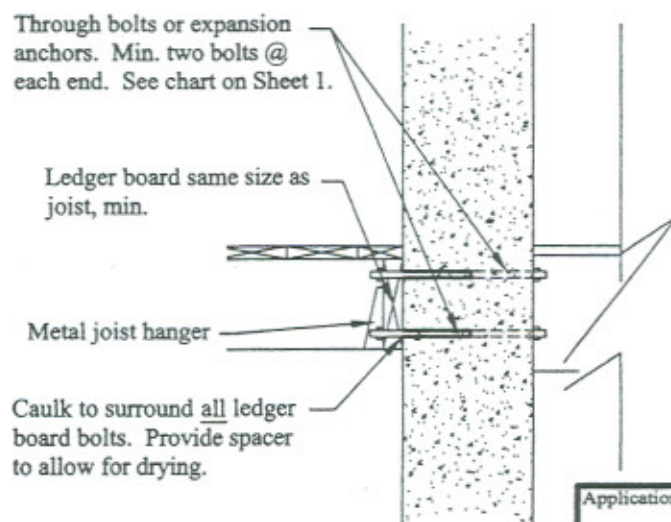
Siding Applications



Brick Veneer Applications



Brick/Block Applications



Concrete/Block Applications

Application No.

Sheet No.

4 of 4

Residential Deck Drawings

